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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
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10/691,177

10/22/2003

Yiping Ma

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6510

7590

08/10/2005

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EXAMINER

EVANS, JEFFERSON A

ART UNIT

PAPER NUMBER

2652

DATE MAILED: 08/10/2005

Please find below and/or attached an Office communication concerning this application or proceeding.

<b>Office Action Summary</b>	<b>Application No.</b> 10/691,177	<b>Applicant(s)</b> MA, YIPING	
	<b>Examiner</b> Jefferson A. Evans	<b>Art Unit</b> 2652	

**-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --**

**Period for Reply**

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If the period for reply specified above is less than thirty (30) days, a reply within the statutory minimum of thirty (30) days will be considered timely.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

**Status**

- 1) ☐ Responsive to communication(s) filed on \_\_\_\_.
- 2a) ☐ This action is **FINAL**.                      2b) ☒ This action is non-final.
- 3) ☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

**Disposition of Claims**

- 4) ☒ Claim(s) 1-24 is/are pending in the application.  
     4a) Of the above claim(s) \_\_\_\_ is/are withdrawn from consideration.
- 5) ☐ Claim(s) \_\_\_\_ is/are allowed.
- 6) ☒ Claim(s) 1-8, 10, 14-16 and 18-24 is/are rejected.
- 7) ☒ Claim(s) 8, 9, 11-13 and 17 is/are objected to.
- 8) ☐ Claim(s) \_\_\_\_ are subject to restriction and/or election requirement.

**Application Papers**

- 9) ☒ The specification is objected to by the Examiner.
- 10) ☒ The drawing(s) filed on 22 October 2003 is/are: a) ☒ accepted or b) ☐ objected to by the Examiner.  
     Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).  
     Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).
- 11) ☐ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

**Priority under 35 U.S.C. § 119**

- 12) ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).  
     a) ☐ All    b) ☐ Some \*    c) ☐ None of:
1. ☐ Certified copies of the priority documents have been received.
2. ☐ Certified copies of the priority documents have been received in Application No. \_\_\_\_.
3. ☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).
- \* See the attached detailed Office action for a list of the certified copies not received.

**Attachment(s)**

- |  |   |
|--|---|
| 1) <input checked="" type="checkbox"/> Notice of References Cited (PTO-892)  | 4) <input type="checkbox"/> Interview Summary (PTO-413)<br>Paper No(s)/Mail Date. ____. |
| 2) <input type="checkbox"/> Notice of Draftsperson's Patent Drawing Review (PTO-948)                                   | 5) <input type="checkbox"/> Notice of Informal Patent Application (PTO-152)             |
| 3) <input type="checkbox"/> Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08)<br>Paper No(s)/Mail Date ____. | 6) <input type="checkbox"/> Other: ____.  |

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Claims 1 to 24 are pending.

### ***Specification***

1. The abstract of the disclosure is objected to because reference should be made to the inventive structural elements that results in keeping the information storage medium free of induced charge.
2. The title of the invention is not adequately descriptive. A new title is required that is more clearly indicative of the invention to which the claims are directed. One solution would be to insert -- within a cartridge -- after "magnetic disk".

### ***Claim Objections***

3. Claims 8 and 9 are objected to because of the following informalities: claim 8 – line 3, "rortatable" is a misspelling.. Appropriate correction is required.

### ***Claim Rejections - 35 USC § 102***

4. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless –

(e) the invention was described in (1) an application for patent, published under section 122(b), by another filed in the United States before the invention by the applicant for patent or (2) a patent granted on an application for patent by another filed in the United States before the invention by the applicant for patent, except that an international application filed under the treaty defined in section 351(a) shall have the effects for purposes of this subsection of an application filed in the United States only if the international application designated the United States and was published under Article 21(2) of such treaty in the English language.

5. Claims 1-4, 10, 14, 15, 19-22, and 24 are rejected under 35 U.S.C. 102(e) as being anticipated by Hamaguchi (U.S. 6,898,798). Hamagushi discloses a disk

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cartridge including an anti-static layer 16 and a metal sheet 17, both spaced from the rotatable disk (D) and parallel to the rotatable disk, both formed from conductive material (column 4- line 21). The cartridge also has a lower half 11 that is spaced from the disk while being parallel with the disk. Lower half 11 and the anti-static layer both have openings, with the openings being aligned. If the anti-static layer is considered the first portion and cartridge lower half is considered the second portion, the first portion is electrically conductive and is between the second portion and the disk. The lower half is formed from plastic (column 3 – lines 63 and 64) and thus can be considered electrically insulative.

***Claim Rejections - 35 USC § 103***

6. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negated by the manner in which the invention was made.

7. Claims 5-7, 16, and 23 are rejected under 35 U.S.C. 103(a) as being unpatentable over Hamaguchi in view of Bagnell et al (U.S. 6,809,903). Hamaguchi's cartridge upper half 10 can be considered his third portion and is formed from plastic but the plastic is not disclosed as being dissipative plastic.

Bagnell discloses a disk cartridge with housings formed from dissipative plastic by forming the plastics to have a filler that provides conductivity, such as metal powder (column 9 – lines 22 to 32).

It would have been obvious to one of ordinary skill in the art at the time the invention was made to have the plastic third portion of Hamaguchi be formed from dissipative plastic. The motivation would have been: dissipative plastic was known for use in environments in which static discharge posed a serious threat to the proper functioning or integrity of a device or item, and as evidenced by Bagness was specifically known for use in disk cartridges to provide anti-static benefits.

8. Claims 8 and 18 are rejected under 35 U.S.C. 103(a) as being unpatentable over Bennett et al (U.S. 2002/057522). Bennett discloses a disk drive having a disk 108; a motor 106; and a housing including a metal baseplate 102 and a printed circuit board 200 which both have aligned openings for the motor, which are spaced from each other, and which are parallel to the disk. The disk drive also includes a lower metal cover 230. The base 102 being metal, i.e., conductive, will keep the disk substantially free of induced charge. The metal lower cover 230 will assist in moving induced charges away from the disk.

Bennett does not expressly disclose his disk drive as being a disk drive that can be considered a disk cartridge, i.e., readily removable.

Official Notice is given that it was notoriously old and well known in the art to provide a disk drive to be readily removable.

It would have been obvious to one of ordinary skill in the art at the time the invention was made to have the disk drive of Bennett be readily removable. The motivation would have been: to do so was well known so as to provide portability of the disk drive between locations or work stations, and standards such as PCMCIA had

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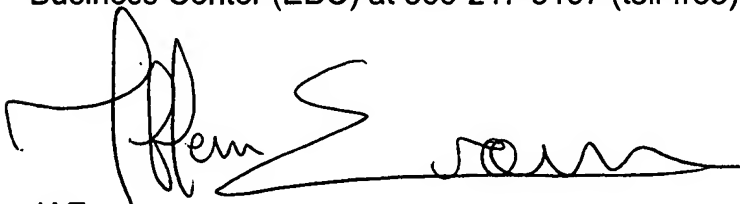
been well established for providing set physical dimensions and formats and such for readily removable disk drives.

9. Claims 9, 11-13, 17 are objected to as being dependent upon a rejected base claim, but would be allowable if rewritten in independent form including all of the limitations of the base claim and any intervening claims.

10. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Jefferson A. Evans whose telephone number is 571-272-7574. The examiner can normally be reached on Monday to Friday, 9:00am to 5:30pm.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Hoa Thi Nguyen can be reached on 571-272-7579. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).



JAE  
July 30, 2005

Jefferson A. Evans  
Primary Examiner  
Art Unit 2652

**JEFFERSON EVANS  
PRIMARY EXAMINER**